

Genesis II



Outdoor LED Signs & Digital Billboards

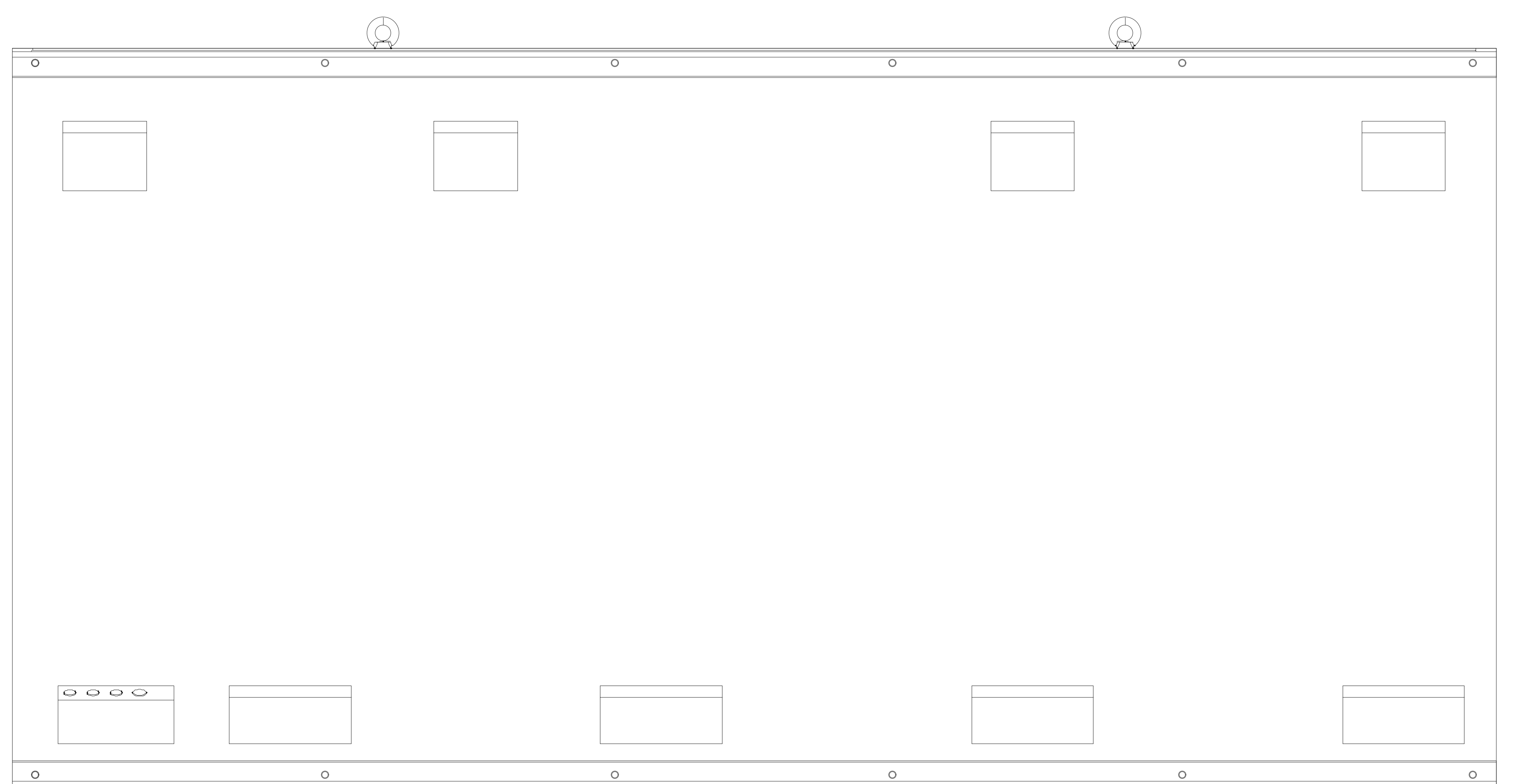
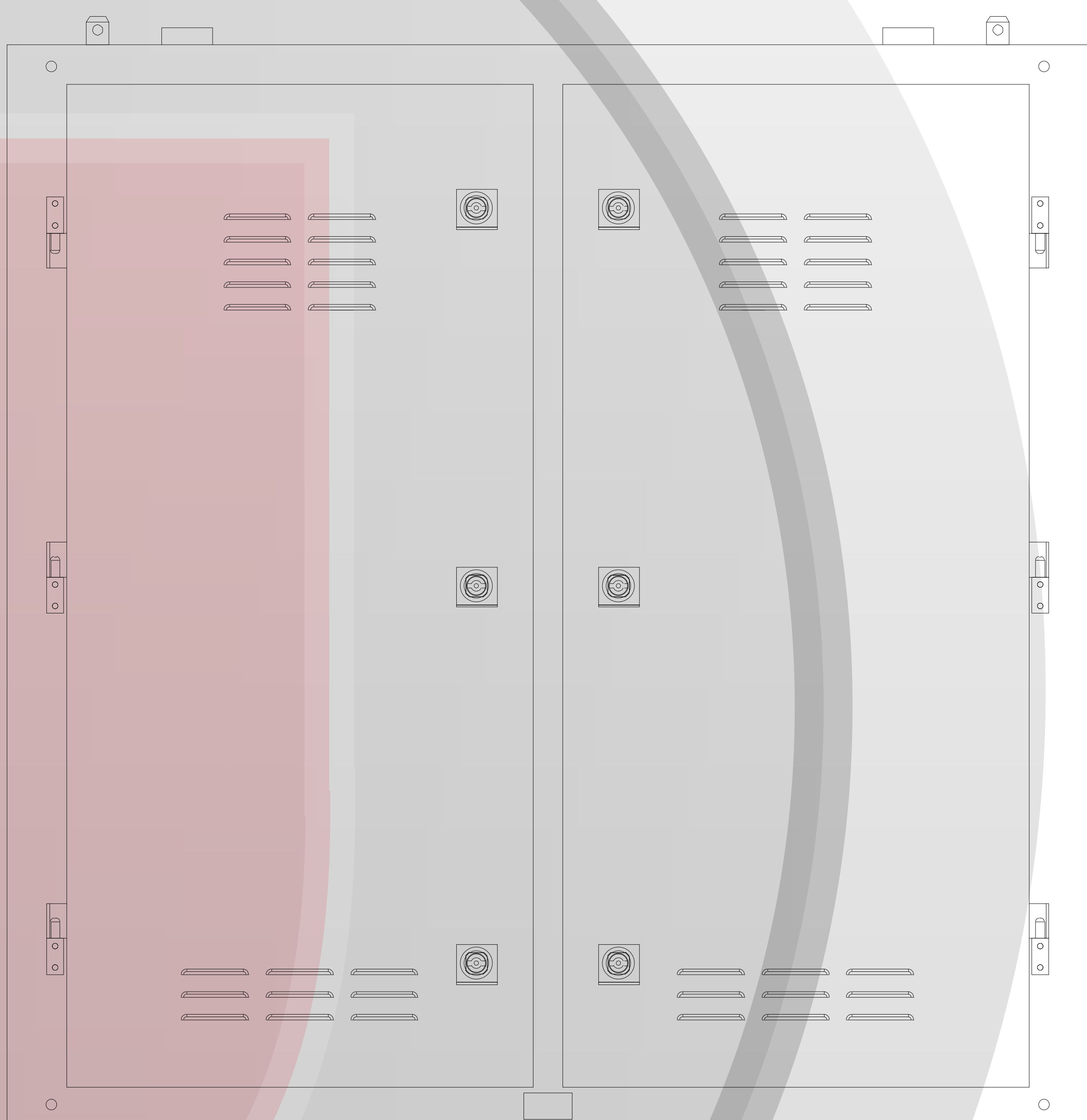


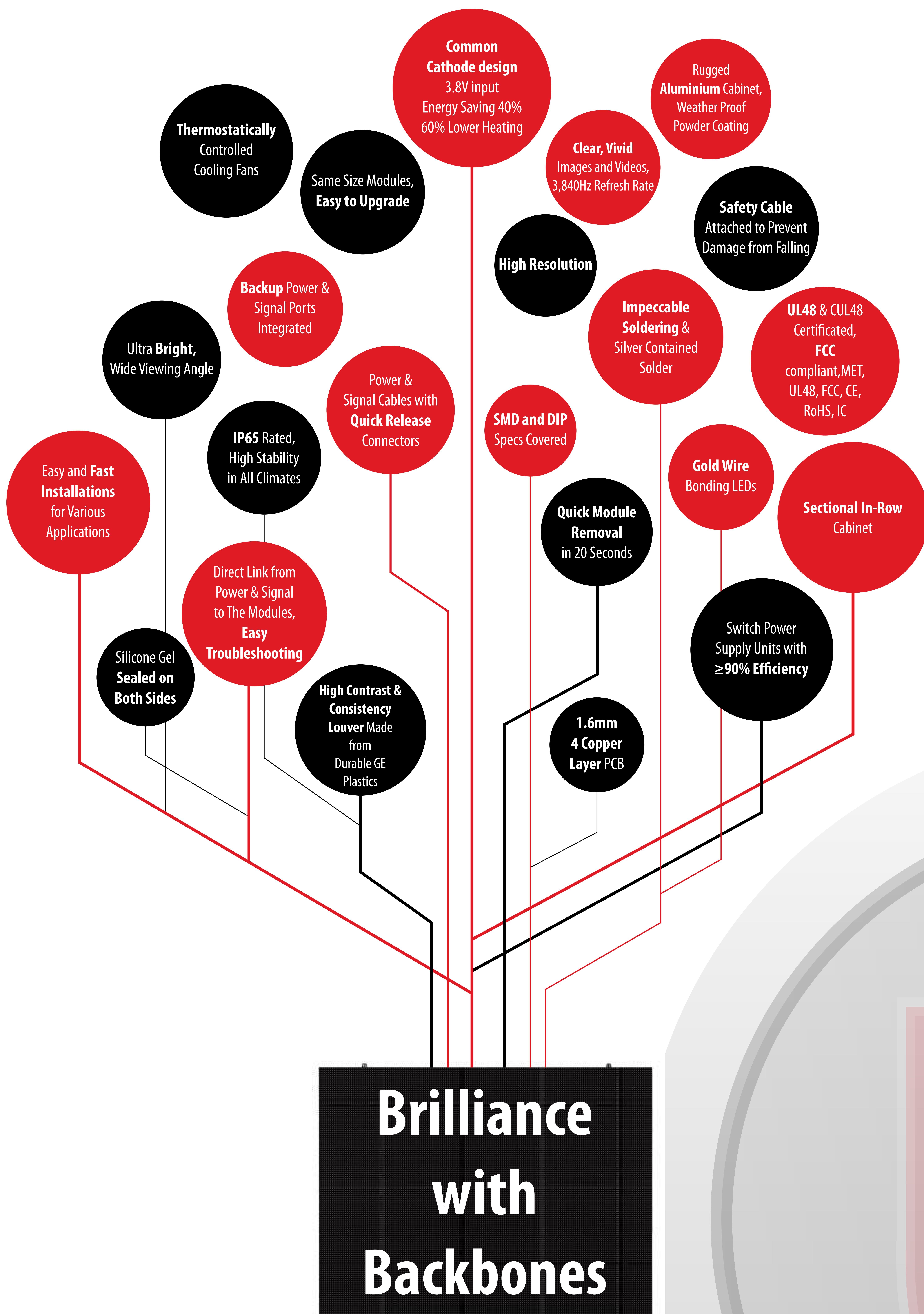
The perfect LED solution for:

Hospitality | Schools | Sports Stadiums |
Entertainment Venues | Retail | Manufacturing

Genesis II

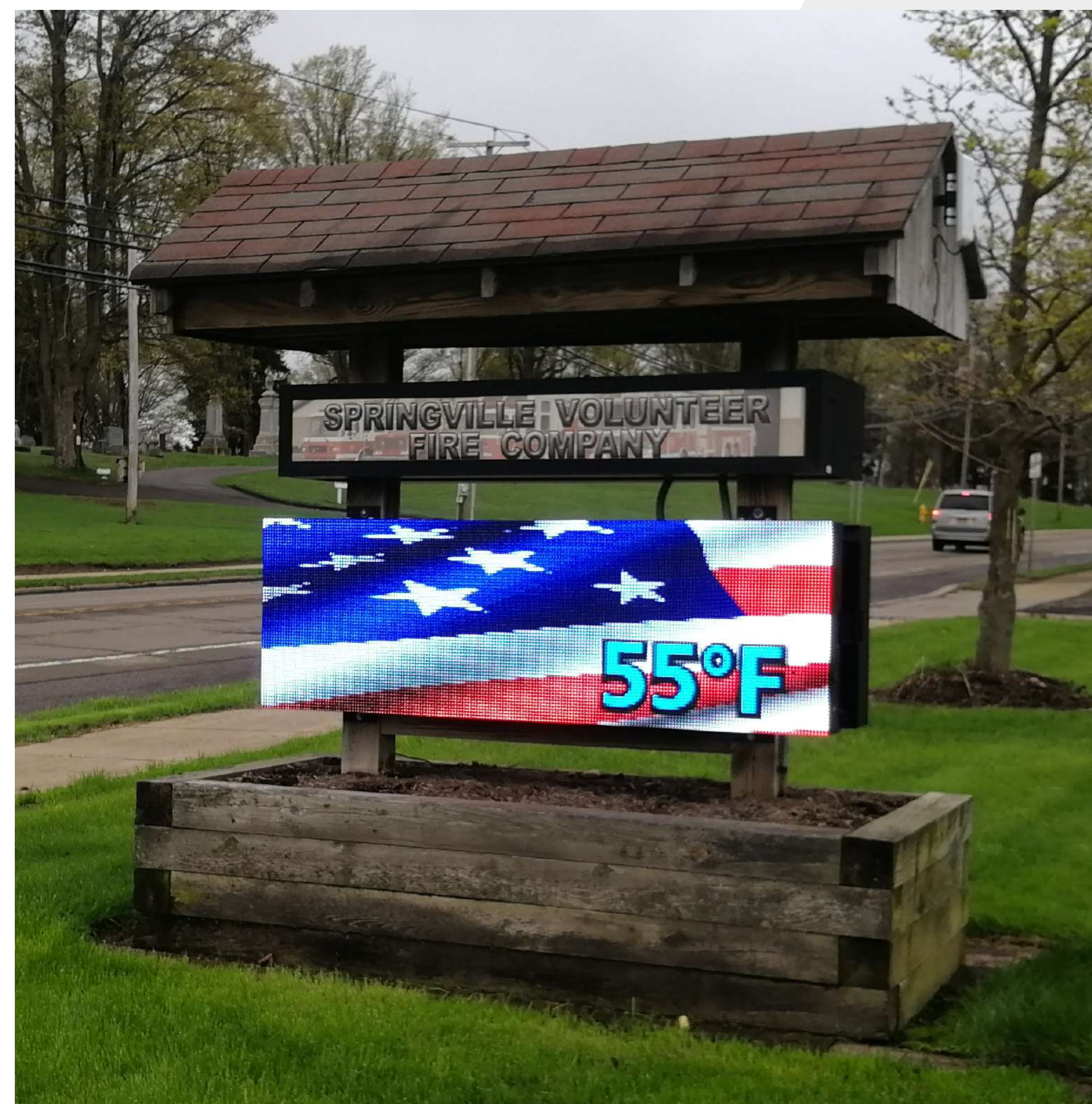
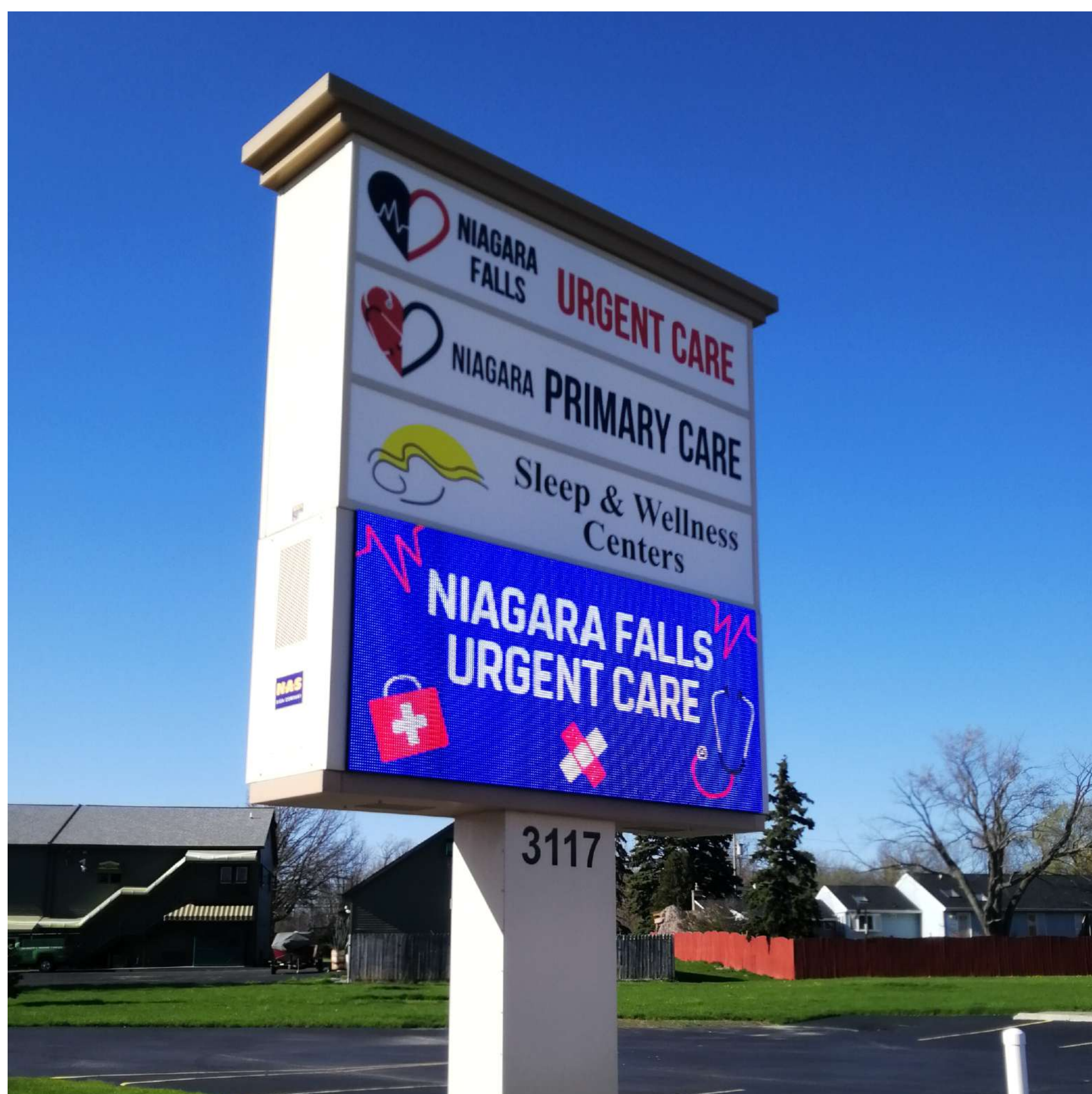
Genesis II was originally developed for the U.S. outdoor LED signs and digital billboards market. After years of continuous innovation and thousands of successful installations across the country, it now stands as the benchmark for reliability in outdoor LED displays. Beyond its high brightness, refresh rate, contrast, energy efficiency, and reliability, Genesis II offers unmatched design flexibility. It can be fully customized in size, shape, and configuration to meet the unique demands of any outdoor project - delivering a perfect fit for every installation.





For Every Outdoor Application.





**One Cabinet = One Sign Face.
Fast, Simple, Done.**

Brilliant



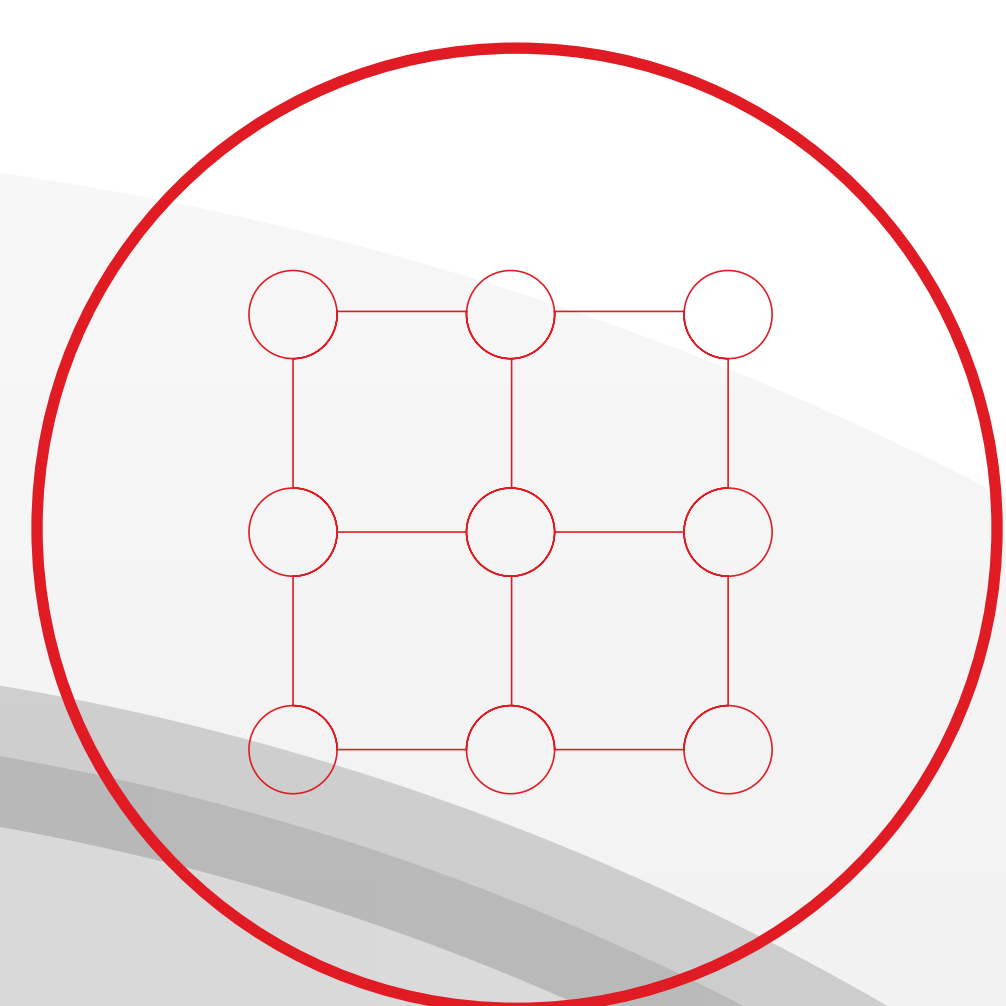
Bright

Standard brightness delivers 6,500 nits, while the ultra-high brightness option reaches an impressive 10,000 nits—available for 4mm pixel pitch and above.



Vivid

Engineered with a matte black surface and extended louver design, the screen remains vibrant and crisp—even under direct sunlight.



Smooth

Powered by a high-refresh driver IC, the screen delivers smooth, flicker-free visuals—flawless to both the eye and the camera in any environment.



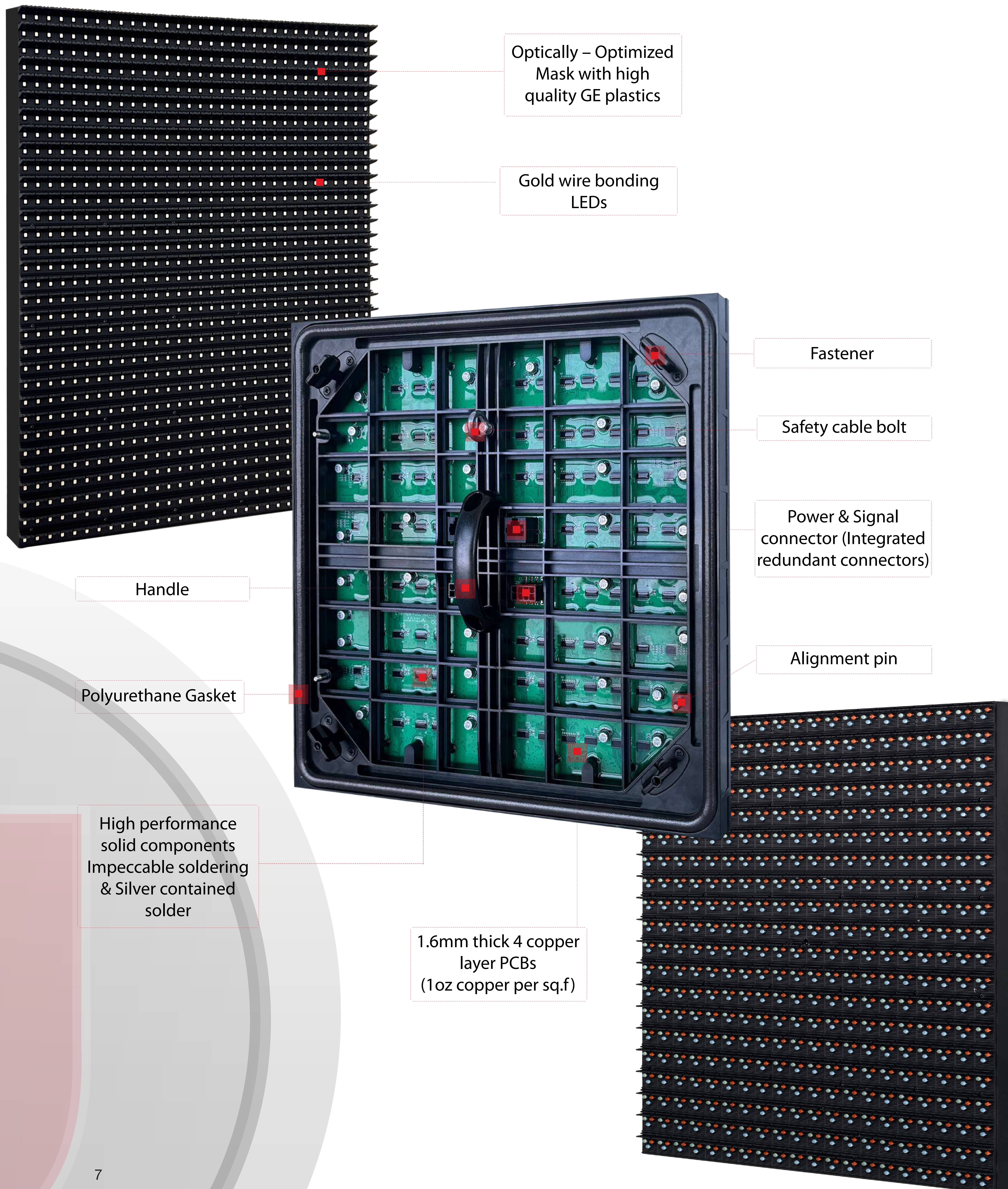
Optically-Optimized Mask & Louver

Genesis II features a matte black module mask with a textured surface that enhances image contrast and reduces glare. A unique extended louver (sun visor) design is implemented to effectively block direct sunlight from hitting the LEDs, further improving outdoor visibility. Even under intense sunlight, the screen remains vibrant and crystal-clear.



Reliable

The Genesis II features only Gold wire bonding LEDs, ensuring exceptional stability and longevity. It's built with all premium components, and engineered through a rigorous R&D process to achieve the highest level of reliability.

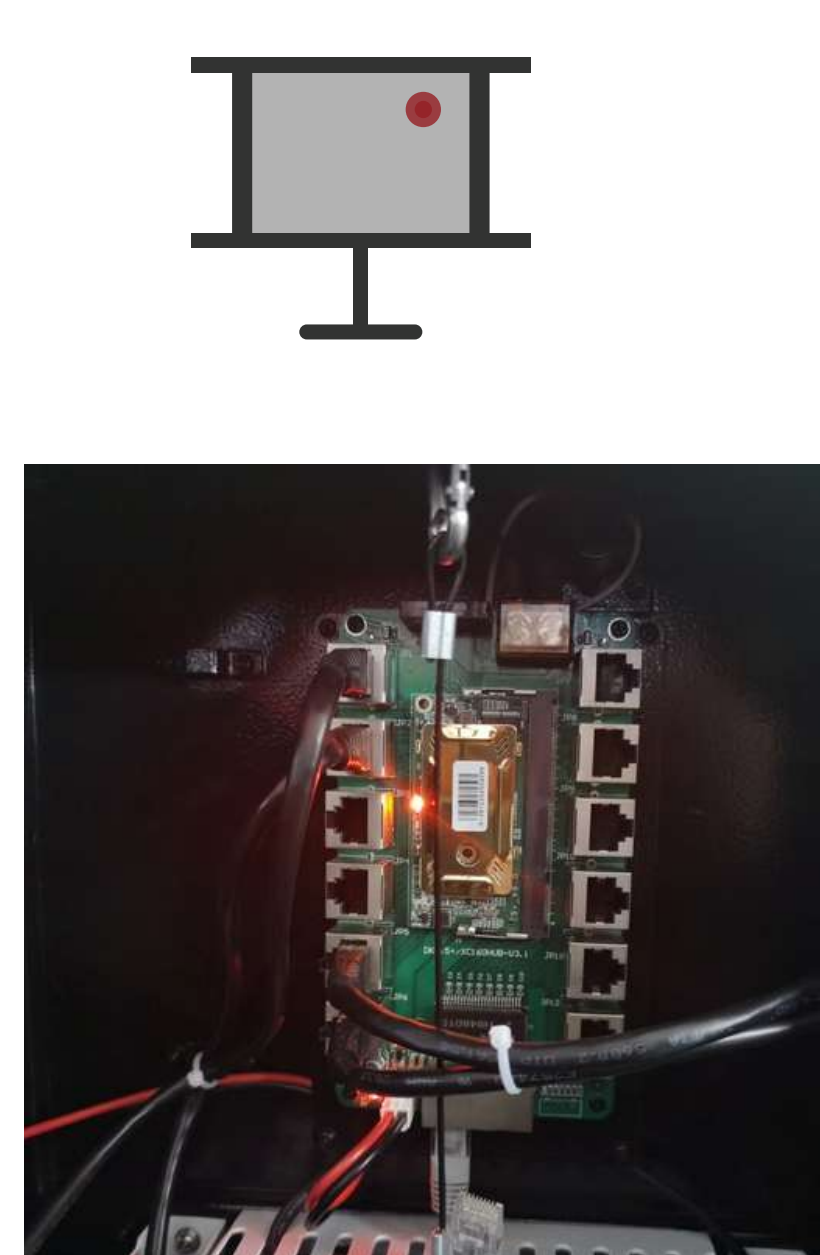


Durable

With module components sealed in Silicone gel on both sides and critical systems enclosed in high-protection Aluminum cabinets, Genesis II has proven its unmatched durability across thousands of installations—from scorching deserts to humid coastal environments.

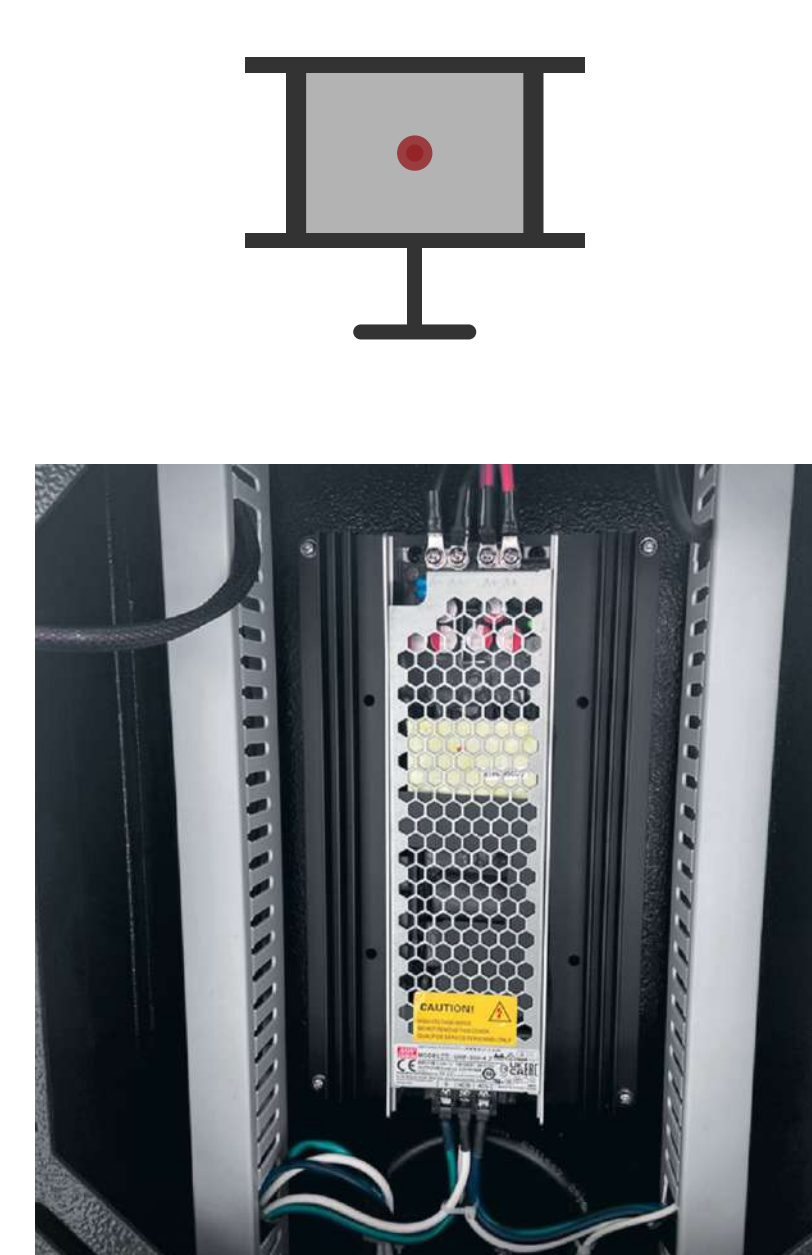


Sectional In-Row Cabinet



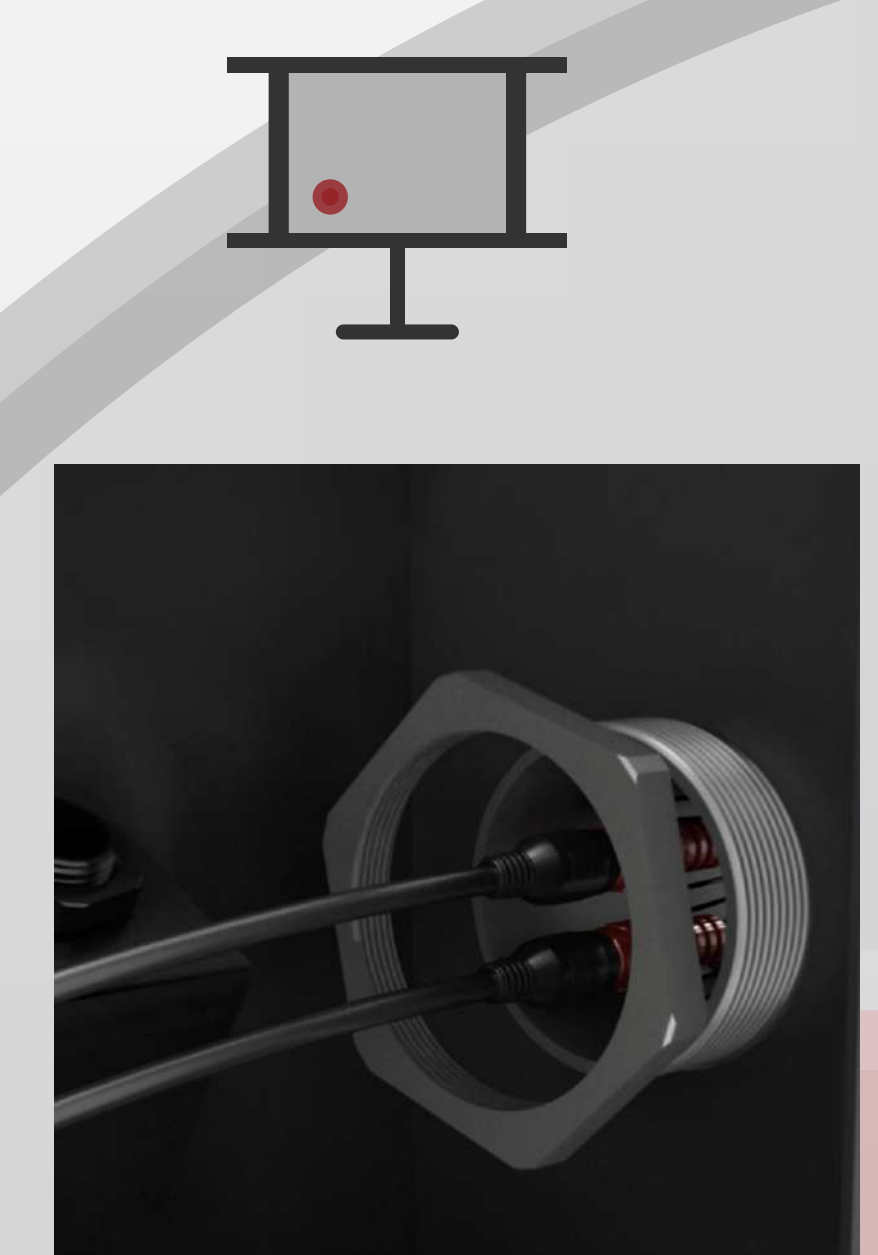
Receiving Card & Cooling Fans

High RPM cooling fans start working when the temperature hits 40°C/104°C (adjustable via software) and continue running until the temperature drops to 35°C /95°C , following the instruction of UNITED SIGNS smart thermostatic control system.



Switch Power Supplies

As a critical device in cabinet, the PSU is equipped with no cooling fans and thus will not draw in moisture & condensation, salt air, dust, and minerals to corrode internal components. Also, the efficiency of PSU has reached or even exceeded 90%.

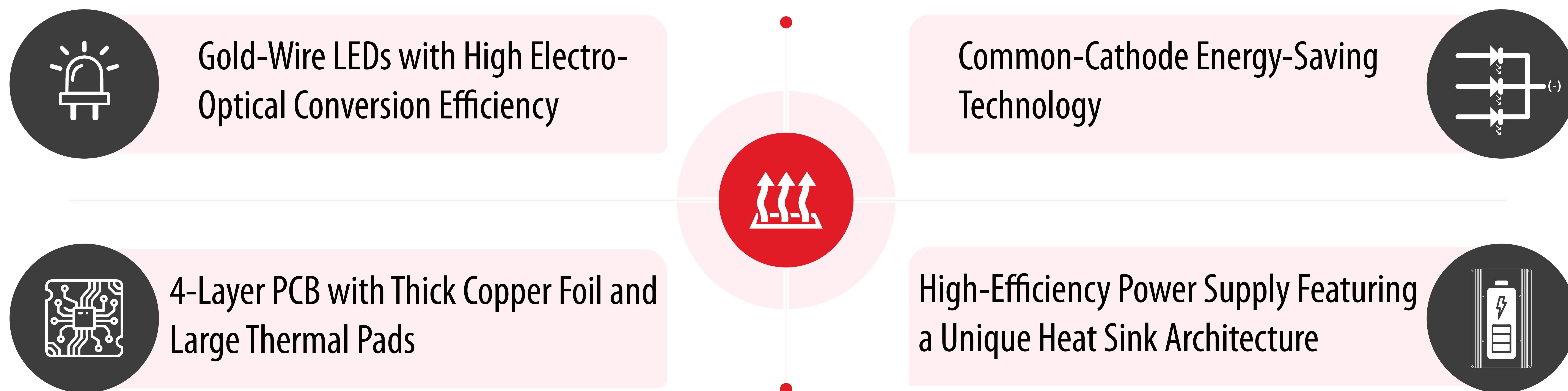


Wiring

All wiring connections are conducted via robust and watertight grips, grommets, or connectors.

Efficient Heat Management

For any electronic device, especially outdoor LED displays, heat and temperature are critical factors that affect stability and lifespan. Genesis II stands as a benchmark in the industry for its superior heat management solution.

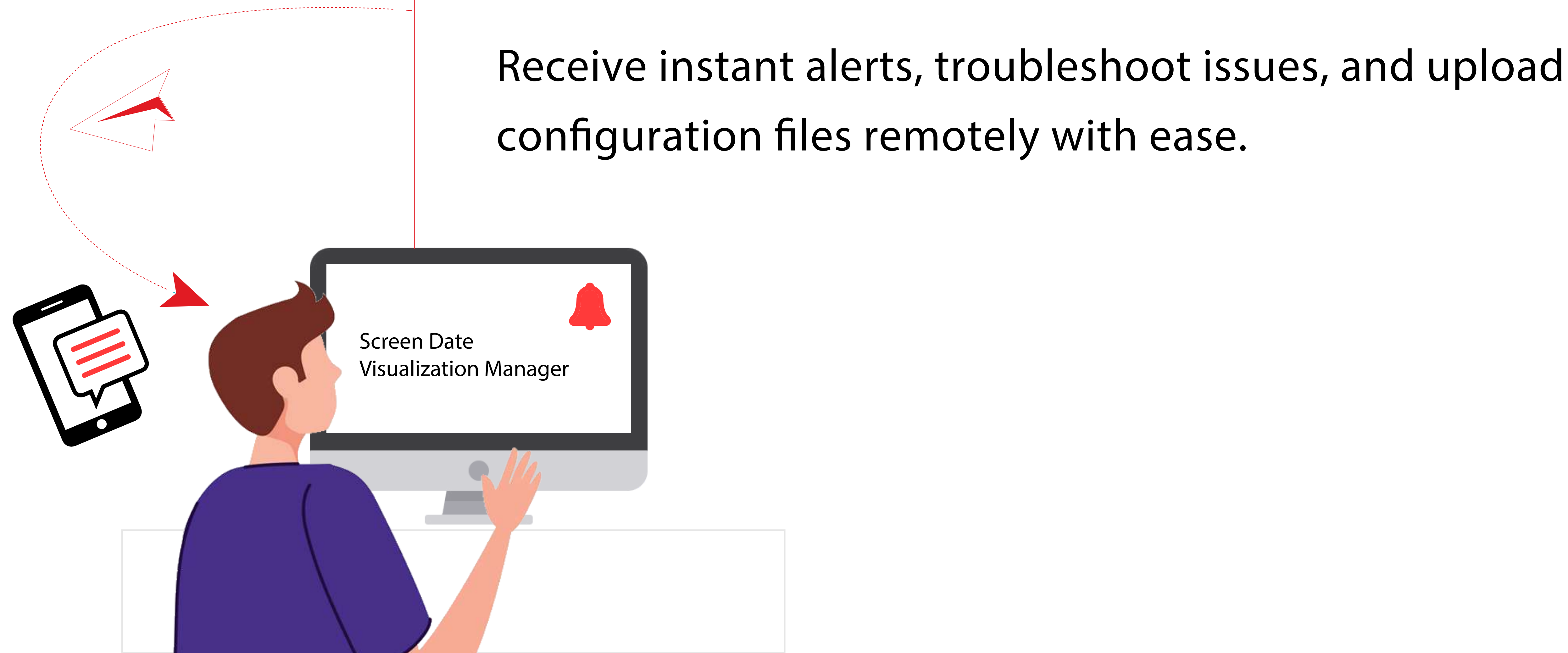


Our engineering philosophy focuses on minimizing internal heat generation at the source and conducting heat efficiently throughout the system. In addition, Genesis II is equipped with temperature-controlled high-speed fans that leverage efficient convection cooling—designed to meet the rigorous thermal demands of hot climates and extreme weather conditions.



Advanced Remote Monitoring & Diagnosis Solution

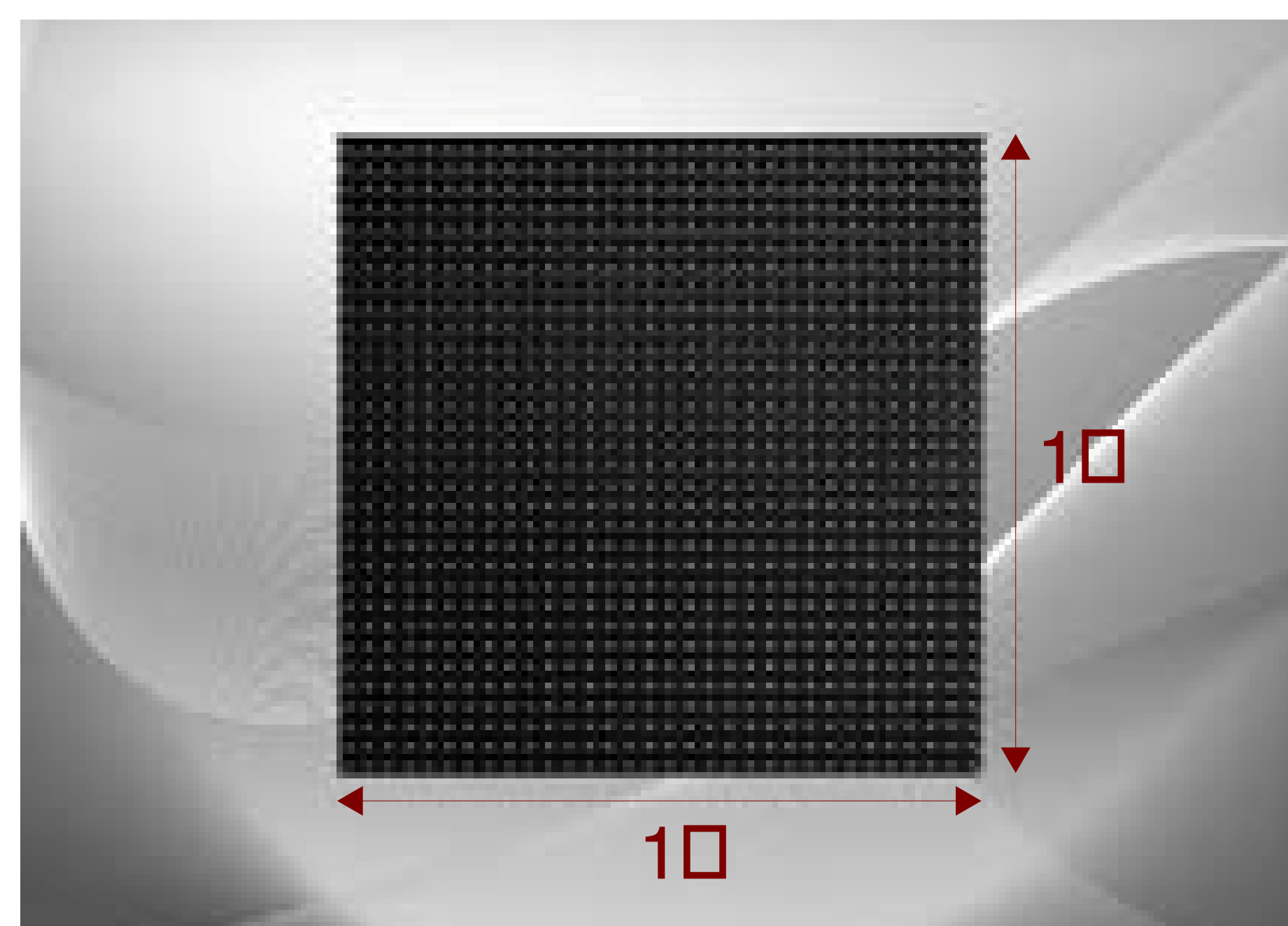
Stay in complete control with our advanced monitoring and diagnostics system. Track the real-time status of power supplies, cooling fans, LED modules—even individual diodes.



Cloud-based. Centralized. Optional. Cost-effective.

Tailored Options to Meet Every Need

With an increasing number of successful installations, Genesis II offers a range of optional configurations to meet the diverse needs of different markets and applications.



Imperial Size

1'x1' Module Size – available to accommodate regional preferences in the U.S. and other countries that use imperial measurements.



Ultra-high Brightness, Contrast

Various LED types are available to meet the specialized requirements of ultra-high brightness and ultra-high contrast applications.



Front, Side Ventilation

Specially designed front or side-vented cabinets can be customized to meet the unique needs of embedded installations.



Rear-Access Cabinets

While the standard Genesis II features a front-access design to align with U.S. market preferences, rear-access doors can also be configured to accommodate projects requiring rear maintenance.



Creative Designs

Flexible customization of cabinet dimensions and forms supports seamless integration into creative installations, such as angled, curved and creative shapes—ideal for 3D forced perspective effects and immersive visual experiences.

FCC INTERFERENCE STATEMENT

Federal Communications Commission Interference Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

U.S. Inventory

Since 2016, we have maintained local inventory in the United States, ensuring rapid delivery while removing the hassles of transportation and import procedures.

10+ Years Parts Availability

With dedicated module warehousing and extended mold retention, we guarantee over a decade of reliable parts availability, giving customers long-term confidence and peace of mind.

Specifications - SMD Type

Pixel Pitch (Resolution)	3 mm	4 mm	6.67 mm	10 mm
LED Package Type	SMD	SMD	SMD	SMD
Pixels/m ² (Density)	104,329	62,500	22,500	10,000
Module Dimensions	12.6" x 12.6" (320mm x 320mm)	12.6" x 12.6" (320mm x 320mm)	12.6" x 12.6" (320mm x 320mm)	12.6" x 12.6" (320mm x 320mm)
Module Matrix	104x104	80x80	48x48	32x32
Module Weight	3 LB (1.4 KG)	3 LB (1.4 KG)	3 LB (1.4 KG)	3 LB (1.4 KG)
Driving Method	1/13 constant current	1/10 constant current	1/6 constant current	1/2 constant current
Refresh Rate	≥3,840 Hz	≥3,840 Hz	≥3,840 Hz	≥3,840 Hz
Video Frame Rate	60 frames/second	60 frames/second	60 frames/second	60 frames/second
Grayscale	65,536 (281 trillion colors)	65,536 (281 trillion colors)	65,536 (281 trillion colors)	65,536 (281 trillion colors)
Color Depth	16 bit	16 bit	16 bit	16 bit
Brightness (NITS)	≥6,000	≥6,000	≥6,000	≥6,000
Brightness Control	256 levels	256 levels	256 levels	256 levels
Ideal Viewing Range	10' or greater	13' or greater	18' or greater	28' or greater
Ideal Viewing Angle	160°(H) / 120°(V)	160°(H) / 120°(V)	160°(H) / 120°(V)	160°(H) / 120°(V)
Max. Power Consumption	74W/ft ² (800W/m ²)	74W/ft ² (800W/m ²)	56W/ft ² (600W/m ²)	56W/ft ² (600W/m ²)
Avg. Power Consumption	24W/ft ² (260W/m ²)	24W/ft ² (260W/m ²)	18W/ft ² (200W/m ²)	18W/ft ² (200W/m ²))
Input Voltage	88 ~ 264VAC	88 ~ 264VAC	88 ~ 264VAC	88 ~ 264VAC
Ingress Protection	IP65	IP65	IP65	IP65
Operating Temperature	-40°F - +140°F (-40 °C - +60 °C)	-40°F - +140°F (-40 °C - +60 °C)	-40°F - +140°F (-40 °C - +60 °C)	-40°F - +140°F (-40 °C - +60 °C)
MTBF	>5,000 hours	>5,000 hours	>5,000 hours	>5,000 hours
LED Life - Span	100,000 hours	100,000 hours	100,000 hours	100,000 hours
Cabinet Size	Customized	Customized	Customized	Customized
Cabinet Material	Aluminum	Aluminum	Aluminum	Aluminum
Cabinet Weight	7.78 LB/ft ² (38 KG/m ²)	7.78 LB/ft ² (38 KG/m ²)	7.78 LB/ft ² (38 KG/m ²)	7.78 LB/ft ² (38 KG/m ²)

* Options for Advanced Features
Ultra-High Brightness (10,000 nits) – available in 4mm, 6.67mm, and 10mm.
Remote Monitoring & Intelligent Diagnostics – available across 3mm, 4mm, 6.67mm, and 10mm.

Specifications - DIP Type

Pixel Pitch (Resolution)	10 mm	16 mm
LED Package Type	DIP	DIP
Pixels/m ² (Density)	10,000	3,906
Module Dimensions	12.6" x 12.6" (320mm x 320mm)	12.6" x 12.6" (320mm x 320mm)
Module Matrix	32x32	20x20
Module Weight	4.5 LB (2 KG)	4.5 LB (2 KG)
Driving Method	1/4 constant current	Static
Refresh Rate	≥3,840 Hz	≥3,840 Hz
Video Frame Rate	60 frames/second	60 frames/second
Grayscale	65,536 (281 trillion colors)	65,536 (281 trillion colors)
Color Depth	16 bit	16 bit
Brightness (NITS)	≥10,000	≥10,000
Brightness Control	256 levels	256 levels
Ideal Viewing Range	28' or greater	52' or greater
Ideal Viewing Angle	120°(H) / 60°(V)	120°(H) / 60°(V)
Max. Power Consumption	35W/ft ² (380W/m ²)	35W/ft ² (380W/m ²)
Avg. Power Consumption	11W/ft ² (120W/m ²)	11W/ft ² (120W/m ²)
Input Voltage	88 ~ 264VAC	88 ~ 264VAC
Ingress Protection	IP65	IP65
Operating Temperature	-40°F - +140°F (-40 °C - +60 °C)	-40°F - +140°F (-40 °C - +60 °C)
MTBF	>5,000 hours	>5,000 hours
LED Life - Span	100,000 hours	100,000 hours
Cabinet Size	Customized	Customized
Cabinet Material	Aluminum	Aluminum
Cabinet Weight	9 LB/ft ² (45 KG/m ²)	9 LB/ft ² (45 KG/m ²)

* Specifications are based on standard Genesis II congurations and are subject to change without prior notice.